

تم تحميل هذا الملف من موقع المناهج الإماراتية



حل أسئلة امتحان تجريبي وفق الهيكل الوزاري منهج انسابير المسار المتقدم

موقع المناهج ← المناهج الإماراتية ← الصف السابع ← علوم ← الفصل الأول ← حلول ← الملف

تاريخ إضافة الملف على موقع المناهج: 2024-11-26 22:11:13

ملفات اكتب للمعلم اكتب للطالب | اختبارات الكترونية | اختبارات | حلول | عروض بوربوينت | أوراق عمل
منهج انجليزي | ملخصات وتقارير | مذكرات وبنوك | الامتحان النهائي للمدرس

المزيد من مادة
علوم:

إعداد: Mohamed Marwa

التواصل الاجتماعي بحسب الصف السابع



الرياضيات



اللغة الانجليزية



اللغة العربية



التربية الاسلامية



المواد على تلغرام

صفحة المناهج
الإماراتية على
فيسبوك

المزيد من الملفات بحسب الصف السابع والمادة علوم في الفصل الأول

أسئلة امتحان تجريبي وفق الهيكل الوزاري منهج انسابير المسار المتقدم

1

نموذج اختبار تدريبي وفق الهيكل الوزاري منهج بريدج

2

حل تجميعية أسئلة مراجعة وفق الهيكل الوزاري منهج بريدج

3

حل ملزمة وفق الهيكل الوزاري القسم الورقي منهج انسابير

4

المزيد من الملفات بحسب الصف السابع والمادة علوم في الفصل الأول

حل مراجعة نهائية وفق الهيكل الوزاري منهج انسابير

5



دولة الإمارات العربية المتحدة
وزارة التربية والتعليم
الفرع المدرسي الأول

Grade

7adv

امتحان تجريبي نهاية الفصل الدراسي الأول
2024\2025

Mock exam for End of Term 1 Exam
2024/2025

Science

Prepared by: Ms. Marwa Mohamed

	Student Number / رقم الطالب
	Student Name / اسم الطالب
	School / المدرسة
	Class / الصف
	Stream / المسار
	Subject / المادة

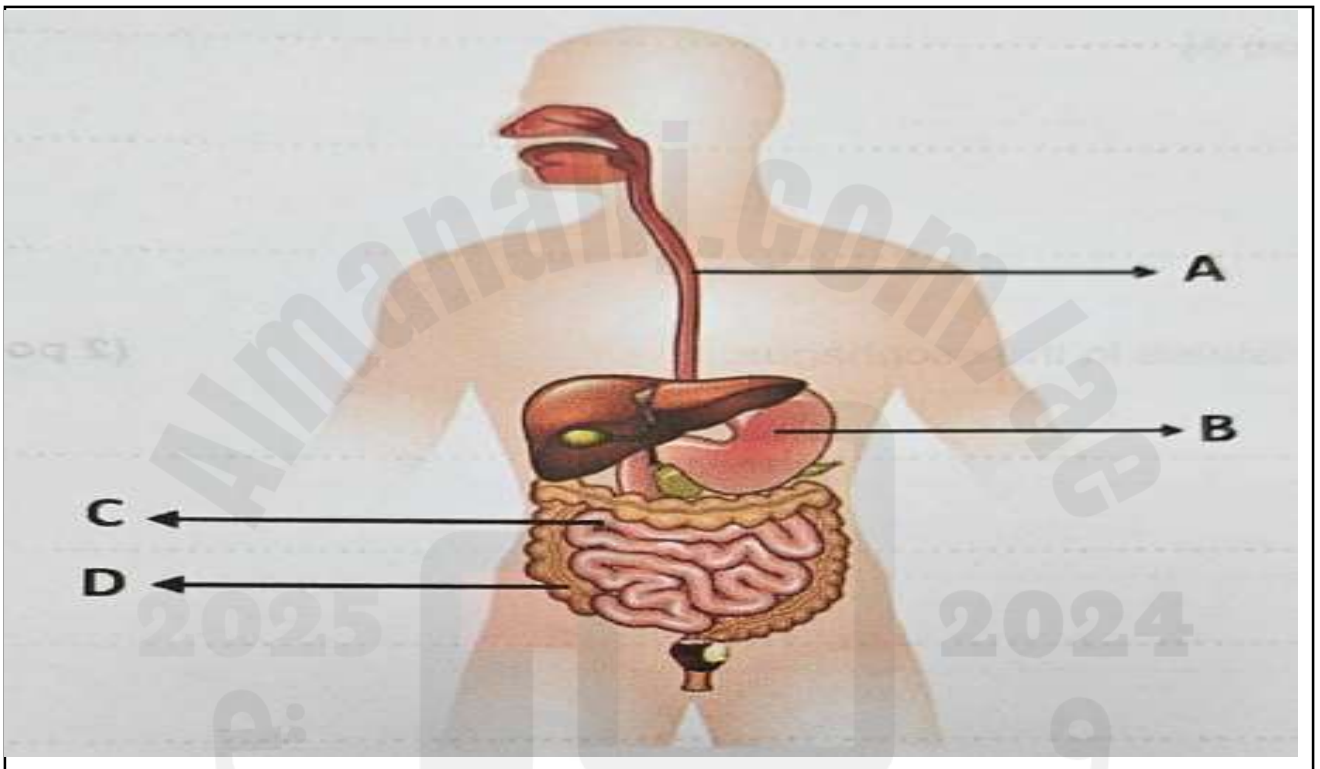
100	60	40	الدرجة

Part 1 : free response questions

Question 1

4 marks

The figure below represents the human digestive system



Name the parts of the digestive system labelled A, B, c, and D

- A) **Esophagus**.....
- B) **Stomach**.....
- C) **Small intestine**.....
- D) **Large intestine**.....

B- State the function of each part A, B, C, and D

4 marks

A).....transport food, liquids, and saliva from the
.....mouth to the stomach.

B).....break down food and begin the digestion process.

C).....where most chemical digestion occurs and
.....nutrients absorbance via villi to blood

D).....absorb water, salts, and some nutrients from the
.....remaining indigestible food matter, and to form
and eliminate feces.

2 marks

C) Describe peristalsis in the esophagus..

.....Peristalsis is a series of wave-like muscle contractions that
.....occur in the walls of hollow organs, such as the
.....esophagus, stomach, intestines, and other parts of the
.....digestive system. These contractions help move food,
.....liquids, and waste through the digestive tract.

D) a student claims that mechanical digestion are necessary for breaking down food. Do you agree with the student ? Justify your answer

.....yes, I agree mechanical digestion breach down
food into small pieces and ease chemical digestion process

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Question 2 :

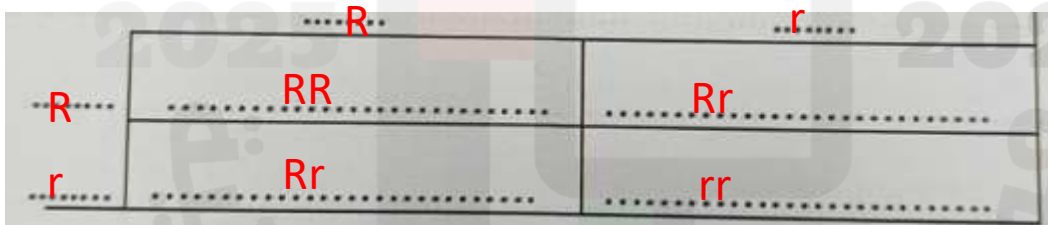
8 marks

The diagram below shows round and wrinkled seeds phenotype.



The shape of the seed controlled by a single gene this gene has two alleles. the dominant allele (R) is the allele for round seeds . The recessive allele (r) is the allele for wrinkled seeds.

a) use the Punnett square to show how to round seed plants may produce a plant with wrinkled seeds



b) describe the difference between dominant and recessive traits

2 marks

..... dominant gene is as genetic factor blocks another genetic factor

recessive gene is a genetic factor that is blocked by the the presence of a dominant gene.....

Question 2 :

C) describe the difference between homozygous and heterozygous genotypes

3 marks

When the two alleles of a gene are the same it's genotype is homozygous

if the two alleles are different its your genotype is heterozygous

D) a cross between two heterozygous pea plants with yellow seeds produced 75 yellow seeds and 25 green seeds

3 marks

- calculate the ratio of yellow to green seeds
- state your answer as ratio in the simplest form
- Show calculations

75:25

3:1..

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Question 3 :

4 marks

A biologist named Charles Darwin proposed that neck lengths of tortoises in the Santiago Island evolved through natural selection to take advantage of the available food sources on the island.

a) In the spaces below, explain how the evolution of tortoises occurred via natural selection for each step. If you need more space, use the space on the next page and identify the step

1-Reproduction

A population of tortoises produces many offspring that inherit its characteristics



2-Variation

A tortoise is born with a variation that makes its neck slightly longer



3- Competition

due to limited resources not, all offspring will survive offspring with a longer neck can eat more food than other tortoises it lives longer, and it produces more

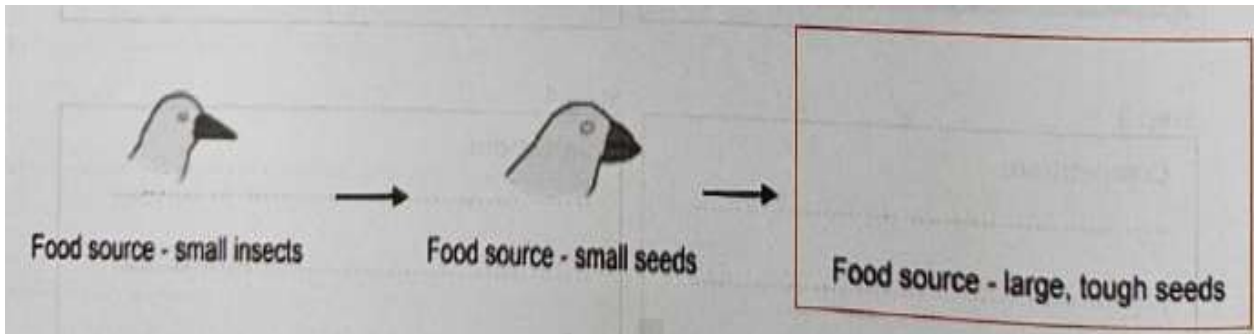


4- Selection

Overtime the variation is inherited by more and more of this spring eventually all tortoises have longer necks



b) The diagram below shows how natural selection leads to variations in a bird population when the food source changes. In the space provided, draw an image of the bird when the food source is made up of large tough seeds. **2 marks**



4 marks


D) Farmers often use selective breeding to enhance certain traits in livestock, such as increased milk production in cows or faster growth rates in chickens. Explain how selective breeding works and describe two potential advantages and two disadvantages of using selective breeding in agriculture

Advantages of Selective Breeding:

1. Enhances desirable traits (e.g., higher yields, disease resistance).
2. Preserves valuable genes for future generations.

Disadvantages of Selective Breeding:

1. Reduces genetic diversity, increasing vulnerability to diseases.
2. May cause health issues due to inbreeding.

Question	1	السؤال
	which statement best explains what is happening to the hydra in the figure above?	
A	The hydra is reproducing asexually by budding a new hydra	
B	The hydra is reproducing asexually by splitting in two	
C	The hydra is reproducing sexually by grafting to another hydra	
D	The hydra is reproducing sexually by releasing sex cells into the water	

Question	2	السؤال
	A group of organs that work together to perform a specific task old	
A	Tissue system	
B	Organ system	
C	cell system	
D	organ vessel	

Part 2 : choose the correct answer

Question	3	السؤال
Photoreceptors are found in your		
A	Ears	
B	Eyes	
C	Skin	
D	nose	










Question	4	السؤال
Which of the following defines a hydrostatic skeleton?		
A	A hard outer cover that gives support and protection to some animals .	
B	A fluid-filled internal cavity surrounded by muscle tissue .	
C	A structure of bones and joints joined together.	
D	A group of muscle fibres that contract and relax to allow movement.	

Part 2 : choose the correct answer

Question	5	السؤال
What is the primary purpose of selective breeding?		
A	To observe natural selection in action.	
B	To allow organisms to adapt to changing environments.	
C	To produce organisms with traits that are advantageous or desirable for humans.	
D	To increase the mutation rate in a population.	

Question	6	السؤال
When you eat food, which two organ systems work together to deliver nutrients to body cells?		
A	Respiratory system and immune system	
B	Skeletal system and digestive system	
C	Circulatory system and muscular system	
D	Nervous system and endocrine system	


Part 2 : choose the correct answer

Question	7	السؤال								
An organism's physical appearance or visible traits - this is how a trait appears or is expressed	<table border="1"> <thead> <tr> <th>Genotypes</th> <th>Phenotypes</th> </tr> </thead> <tbody> <tr> <td>AA</td> <td> Yellow</td> </tr> <tr> <td>Aa</td> <td> Yellow</td> </tr> <tr> <td>aa</td> <td> Green</td> </tr> </tbody> </table>		Genotypes	Phenotypes	AA	 Yellow	Aa	 Yellow	aa	 Green
	Genotypes	Phenotypes								
AA	 Yellow									
Aa	 Yellow									
aa	 Green									
A	phenotype									
B	Punnett square									
C	genotype									
D	homozygous									

Question	8	السؤال
Which the following is not function of the muscular system?		
A	movement	
B	Stability	
C	Temperature regulation	
D	Calcium storage	


Part 2 : choose the correct answer

Question	9	السؤال
<p>Which structural genetic change in the finches can be identified as the one most influenced by feeding habits, as proposed by Charles Darwin.</p>		
A	beak size and shape to take advantage of the food they had	
B	ability to fly from island to island to find the food they prefer	
C	cooperative behaviour so they could share limited seeds and nectar	
D	claw shapes for perching on limbs while catching insects in their beaks	

Question	10	السؤال
<p>Which type of muscle is found only in the heart? ?</p>		
		
A	Skeletal muscle	
B	smooth muscle	
C	involuntary muscle	
D	cardiac muscle	

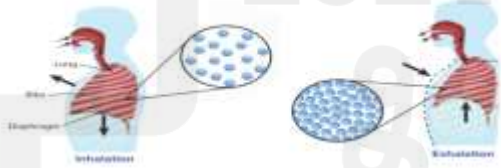
Part 2 : choose the correct answer

Question	11	السؤال
Which is the most likely description of a seed that is dispersed by wind.		
A	It has a waterproof coating	
B	It has a thick, hard shell.	
C	It is light and small.	
D	It can float.	

Question	12	السؤال
The hinge joint in the graph below allows bones to move back and forth. Which of the following do not have hinge joints ?		
A	knee	
B	fingers	
C	shoulders.	
D	elbow .	

Part 2 : choose the correct answer

Question	13	السؤال
<p>Kari has two pet rats with black fur. When her rats mated, one of their four offspring had white fur, and the other three had black fur. Which is most likely true for Kari's rats?</p>		
A	Both parents are homozygous for the white-fur trait, which is recessive.	
B	Both parents are heterozygous for the white-fur trait, which is dominant.	
C	Both parents are heterozygous for the white-fur trait, which is recessive.	
D	Both parents are heterozygous for the white-fur trait, which is sex-linked.	

Question	14	السؤال
<p>The figure below represents the respiratory system and the diaphragm movement. Which of them explains the function of the diaphragm?</p>		
		
A	It provides a large surface area for absorbing carbon monoxide from the air and releasing.	
B	It provides a way for all the cells in the lungs to obtain nutrients from the bloodstream	
C	It moves and causes changes in the air pressure inside your chest.	
D	It provides a large surface area for absorbing carbon dioxide from the air and releasing oxygen.	

Part 2 : choose the correct answer

Question

15

السؤال

Which image correctly shows the transportation of water and minerals in the xylem?

A



B



C



D

